

INSTRUCCIONES DE APLICACIÓN



COLTECH TRANSELAST

RECUBRIMIENTO PROTECTOR DE MADERA DE LARGA DURACIÓN

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INTRODUCTION



Coltech® Transelast® is a transparent, hard elastic, one component, fully aliphatic polyurethane coating, providing absolute UV and light resistance, extreme durability due to high coating thickness and high elasticity preventing from cracks and peel-offs. It's water vapor permeability allows wood "breathe". Coltech® Transelast is resistant to alcoholic substances, gasoline and cleaning agents. Coltech® Transelast® protects and waterproofs wooden surfaces against humidity, water penetration, salt corrosion, smog and acid rain.

Coltech® Transelast® protects wooden surfaces for many years, without the need of grinding and reapplication, as conventional Marine wood varnishes do.



Application Instructions

GETTING STARTED



GENERAL INFORMATION

- Please take the time to read application instructions carefully. Reading Coltech® Transelast® TDS (Technical Data Sheets), product label information and MSDS (Material Safety Data Sheets) is highly suggested.
- Coltech® Transelast® should never be used below the waterline.
- Coltech® Transelast® does not bond with silicone joints and joints sealed with silicon containing sealing compounds.
- Do not use any solvents before or after the installation of coating on the surface. Do not use floor cleaners or waxes on the finished surfaces.
- The acceptable range of moisture in the wood should not be exceed 10% - 12%.
- The underside of the deck requires a sealing coating in order to prevent vapor absorption. This applies to all end grains, plank sides and undersides. It is necessary to provide a barrier against water vapor penetration.
- The required drying and curing time of Coltech® Transelast® is about 7 days (final curing) before surface can be used. Furniture and other heavy and sharp objects should not be placed on the surface before final curing. The surface can be walked on for application and/or maintenance purposes and only if this is absolutely necessary 24 hours after application.

Application Instructions



PACKAGING

- Pails should be stored in dry and cool rooms for up to 9 months. Protect the material against moisture and direct sunlight. Storage temperature: 5-30°C
- Products should remain in their original, unopened containers, bearing the manufacturers name, product designation, batch number and application precaution labels.
- Do not shake the can.
- Don't open the pail until the time of application. It is highly suggested to use the contents directly after opening the pail due to the fact that Coltech® Transelast® cures upon exposure to atmospheric humidity (moisture triggered curing).
- If the total content of the pail is not used, it is required to minimize the remaining air column in the can to delay curing of the quantity left. Tip: Place a piece of thin plastic foil or wrap on top of the coating so the contact with the air in the can to minimized.
- The maximum time the material can stores in a re-sealed pail cannot in any way exceed one or two days, depending on the quantity left and the weather conditions.
- Coltech® Transelast® pail might be difficult to be opened or close, due to the product's adhesive characteristics. Tip: To make reopening of the can easier, place a piece of thin plastic wrap between the can and the lid before closing it.
- After you check that the can is tightly closed, it should be stored upside down.
- Stir the contents of the can slowly using a clean wooden stir stick before application. Attention: Do not use a mechanical stirrer due to the fact that it forces air into the liquid products causing bubbling effect.

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CONSUMPTION

- Average consumption of non-thinned Coltech® Transelast® for a finished surface is 1 L/m².

TOOLS

- The brush used for application must be easy to handle since this allows the applicator to produce a smooth and even finished surface. Small brushes are preferred. Quality brushes should only be used and the applicator should ensure that all loose bristles are removed prior to application.
- Only solvent resistant rollers should be used (preferably foam rollers).
- If there is a need to mask adjacent surfaces use masking tape. E.g. 3M or equivalent.
- For personal protection during application nitrile gloves and adequate eye protection is highly suggested.



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PREPARATION OF THE SURFACE



Careful surface preparation is essential for optimum results.

JOINTS & CRACKS

Thoroughly check and repair all cracks, remove loose sealant or caulking compound, use a sharp object to clean the bonding surface of the joint and thoroughly remove loose material and wood dust with a vacuum cleaner. Verify that the underlying deck support structures and beams are sound. Apply Coltech® Transelast® with Coltech® Transelast® Solvent (diluted 30-40%) as primer to the joint and crack edges using a flat brush. After drying for around 5-6 hours (not later 24h), joints and cracks should be filled with polyurethane based sealant/mastic and smoothed flat. Do not use Silicon fillers.

SANDING

After fully hardening (around 1-2 days) the whole deck can be sanded using #80 grain paper. Sanding dust should be thoroughly removed with a vacuum cleaner.

WOOD MOISTURE

Moisture content needs to be between 10% and 12%. Use moisture meter to measure the moisture content in the wood. In the case of old wood, maybe there is a possibility of moisture in the core. If necessary, allow the wood to dry until the desired moisture range is reached. Make sure that there is no water between the deck and planks.

METAL AND PLASTICS PARTS

Screws and other objects on the surface can create weak points on a coated surface if not treated thoroughly. Such parts should be removed before the application starts. Every screw hole and/or larger fastening points need to be treated with primer and Coltech® Transelast®.

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PRIMING THE SURFACE

1. Use Coltech® products only.
2. Don't use any chemical wipe down or any other surface preparation cleaning or sealing products. Remove dust using vacuum.
3. Use a brush and apply the Coltech® Transelast® diluted with Coltech® Transelast® Solvent (30-40%) to the entire prepared surface. Do not forget to prime small cracks. Larger cracks must be filled. Apply one coat of approx. 250 ml/m² depending of the pores on the wood.
4. The priming process may have to be repeated several times on very absorbent substrates or surfaces. Drying time is influenced by humidity and air temperature.
5. Allow the primed surface to dry.
6. When the surface has dried, remaining cracks should be filled in with Polyurethane based sealant/mastic or putty and smoothed flat.

Application Instructions



COLTECH® TRASELAST® APPLICATION

The coating must be applied in several coats (approx. 3 -4 layers) until a minimum of 1 mm total thickness achieved.

HOW TO APPLY

Coltech® Transelast® is not paint or vanish, it is a polyurethane based coating and needs to be applied in several relatively thin layers to reach the final thickness 1 mm. Do not try to complete the application process too quickly by applying thicker layers. A single layer application will result to a rough surface.

BRUSHING

Before starting application, it is highly suggested to make test application on scrap panels in order to get the grip of the material. The brushing technique is of high importance. Avoid bearing down on the brush during application. Make brush that always be full with material. Lightly touch the surface with an evenly loaded brush and then move the brush across the surface in smooth strokes. As soon as the brush stops applying a continuous flow of coating, lightly re-load the brush.

Attention: Wiping the brush against the inside rim of the can will produce air into the coating and brush, affecting the finish.

DRYING TIME

The temperature and air humidity affect the drying time. Drying time for each of layer is between 12 and 18 hours. Higher temperatures and higher humidity shorten drying time.

Attention should be payed to the sun exposure and the surface temperatures before and during the application. Use a shade canopy for application to minimize the direct sun exposure. On high temperatures application is suggested to be done late in the afternoon.

BETWEEN LAYERS

Sanding between layers is only required if the previous layer was applied 72 hours or before.

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STEPS

1. Apply the first thin layer of coating smoothly and evenly. Let the first layer dry. Note: Depending on weather and relative atmospheric humidity, drying time for each of the layers can be between 2 and 6 hours.
2. As soon as the previous layer is dry to touch (not tacky) another layer can be applied with no sanding (except sanding is need for optional purposes).
3. Repeat the application and drying process until a minimum thickness of 1 mm coating has been reached. Desired consumption will be 1L per 1 sq. meter of non-thinned coating.
4. When using Coltech® Transelast® Solvent and/or when applying to vertical surfaces the number of individual layers should be increased (6-8 layers).
5. The final layer can either be glossy or matt.

COLTECH® TRANSELAST® MATT

If a matte finish is desired, the final application needs to be done with Coltech® Transelast® Matt.

- Stir Coltech® Transelast® Matt well before using until all settled solids are evenly distributed in the liquid coating and a uniform color is achieved. Repeat stirring every 5-10minutes.
- Coltech® Transelast® Matt is one coat application. Do not apply a second layer.
- Apply the Coltech® Transelast® Matt coating onto the cured Coltech® Transelast® surface by high quality, short hair roller. Apply the Coltech® Transelast® Matt in thin layers and roll each section multiple times until the desired matting effect is achieved. Every time a new section is applied, take a few steps back, look for reflections and by this way check if the product is applied everywhere.

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LIMITATIONS

- Coltech® Transelast® is slippery when wet. Do not use it where water or moisture is expected and where solid footing is required. For Anti-Slip effect: Please use the Coltech® Transelast® Powder.
- Give Coltech® Transelast® the required time to dry cure. Allow the coating to harden for at least 7 days. Do not place furniture or other objects on the surface before the coating is completely cured. After final curing, the surface can be used. Note: 24 hours after application, the surface can be carefully walked on but that should be done only if absolutely necessary.



ADVANCED LONG TERM PROTECTION WOOD COATING

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